Ray Talent Hunt Olympiad

Supported By- Malviya Seva Sansthan

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OMR Sl. No.:

Ray Talent Hunt Olympiad
National Rank Scholarship and Reward Assessment
Unlock Your Brilliance, Ace the Olympiad

Please Fill in the Block Letter's only

Name :...

Father's Name...

School Name & Address..

...

Student Contact No. .... Admit Card No. ....

PLEASE TICK (✓)

Class : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | *Section :* ☐

C.B.S.E. : ☐ *I.C.S.E. :* ☐ *State Board :* ☐ *Other Board :* ☐

Syllabus Based : ☐ *Mathematics :* ☐ *Hindi :* ☐ *Science :* ☐

English : ☐ *Computer :* ☐ *G.K. :* ☐ | *Office use only*

INSTRUCTIONS

1. Read the instruction before attempting the Question.
2. There will be 40 questions in 75 minutes. First 15 minutes allow for fill the OMR sheet. (T & C Apply)
3. The OMR sheets needs to be submitted to the invigilator.
4. The student cannot use calculator or Log Book.
5. Do not open the Question paper until the signal is given.
6. Do not rough work on the test paper it self, Do not spoil the OMR Sheet.

Each MCQ questions have only one correct answer, For class 1st to 12th, 3 marks will be awarded for each correct answer and zero marks will be awarded for wrong answer as well as unattempted questions.
For class 1st to 12th, 1 mark as minus marking for unattempted question.

INSTRUCTIONS

- Use Black/ Blue Ball Pen only. • Fill the box completely. • Make no stray marks.
- Filling or Partially Filling more than one Circle shall be considered wrong.
- Darken ONLY ONE CIRCLE for each question as shown in the example below.

| | Ⓐ Ⓑ **●C** Ⓓ | Right | Time | **75 min.** | Marks | **120** |

| | Ⓐ Ⓑ Ⓒ Ⓓ | Wrong | Date | D D M M Y Y Y Y |

1	Ⓐ Ⓑ Ⓒ Ⓓ	16	Ⓐ Ⓑ Ⓒ Ⓓ	31	Ⓐ Ⓑ Ⓒ Ⓓ
2	Ⓐ Ⓑ Ⓒ Ⓓ	17	Ⓐ Ⓑ Ⓒ Ⓓ	32	Ⓐ Ⓑ Ⓒ Ⓓ
3	Ⓐ Ⓑ Ⓒ Ⓓ	18	Ⓐ Ⓑ Ⓒ Ⓓ	33	Ⓐ Ⓑ Ⓒ Ⓓ
4	Ⓐ Ⓑ Ⓒ Ⓓ	19	Ⓐ Ⓑ Ⓒ Ⓓ	34	Ⓐ Ⓑ Ⓒ Ⓓ
5	Ⓐ Ⓑ Ⓒ Ⓓ	20	Ⓐ Ⓑ Ⓒ Ⓓ	35	Ⓐ Ⓑ Ⓒ Ⓓ

6	Ⓐ Ⓑ Ⓒ Ⓓ	21	Ⓐ Ⓑ Ⓒ Ⓓ	36	Ⓐ Ⓑ Ⓒ Ⓓ
7	Ⓐ Ⓑ Ⓒ Ⓓ	22	Ⓐ Ⓑ Ⓒ Ⓓ	37	Ⓐ Ⓑ Ⓒ Ⓓ
8	Ⓐ Ⓑ Ⓒ Ⓓ	23	Ⓐ Ⓑ Ⓒ Ⓓ	38	Ⓐ Ⓑ Ⓒ Ⓓ
9	Ⓐ Ⓑ Ⓒ Ⓓ	24	Ⓐ Ⓑ Ⓒ Ⓓ	39	Ⓐ Ⓑ Ⓒ Ⓓ
10	Ⓐ Ⓑ Ⓒ Ⓓ	25	Ⓐ Ⓑ Ⓒ Ⓓ	40	Ⓐ Ⓑ Ⓒ Ⓓ

11	Ⓐ Ⓑ Ⓒ Ⓓ	26	Ⓐ Ⓑ Ⓒ Ⓓ
12	Ⓐ Ⓑ Ⓒ Ⓓ	27	Ⓐ Ⓑ Ⓒ Ⓓ
13	Ⓐ Ⓑ Ⓒ Ⓓ	28	Ⓐ Ⓑ Ⓒ Ⓓ
14	Ⓐ Ⓑ Ⓒ Ⓓ	29	Ⓐ Ⓑ Ⓒ Ⓓ
15	Ⓐ Ⓑ Ⓒ Ⓓ	30	Ⓐ Ⓑ Ⓒ Ⓓ

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RAY TALENT HUNT OLYMPIAD

Signature of Candidate

Signature of Invigilator

1. Which rule is used to determine the direction of current induced in a conductor?
(A) Fleming's left-hand rule   (B) Fleming's right-hand rule
(C) Right-hand thumb rule   (D) Ohm's law

2. The device used to protect an electric circuit from overloading is:
(A) Generator   (B) Transformer
(C) Fuse   (D) Rheostat

3. Which gas is released when hydrochloric acid reacts with a metal?
(A) Oxygen   (B) Hydrogen
(C) Nitrogen   (D) Carbon dioxide

4. The chemical formula of bleaching powder is:
(A) $CaOCl_2$ (B) $CaCl_2$
(C) $CaCO_3$ (D) $Ca(OH)_2$

5. In humans, the process of digestion of food begins in the:
(A) Stomach   (B) Small intestine
(C) Mouth   (D) Large intestine

6. Which is the mode of reproduction in yeast?
(A) Fragmentation   (B) Budding
(C) Binary fission   (D) Spore formation

7. The number of chromosomes in human sperm cells is:
(A) 23   (B) 46
(C) 22   (D) 44

8. Who was the first Indian woman to go into space?
(A) Kalpana Chawla   (B) Sunita Williams
(C) Indira Gandhi   (D) Bachendri Pal

9. The hormone that regulates blood sugar in humans is:
(A) Thyroxine   (B) Adrenaline
(C) Insulin   (D) Testosterone

10. The gap between two neurons is called:
(A) Synapse   (B) Axon
(C) Dendrite   (D) Myelin sheath

11. The sum of the roots of the equation $x^2 - 7x + 12 = 0$ is:
(A) –12   (B) 7
(C) –7   (D) 12

12. The discriminant of the equation $2x^2 - 3x + 5 = 0$ is:
(A) –31   (B) 31
(C) –29   (D) 29

13. The HCF of $x^2 - 1$ and $x^2 - x$ is:
(A) $x - 1$ (B) $x + 1$
(C) x (D) $(x - 1)(x + 1)$

14. The value of $\sin^2 60° + \cos^2 30°$ is:
(A) 0   (B) 1
(C) $\sqrt{3}/2$ (D) 2

15. In ΔABC, right-angled at B, if $\tan A = 3/4$, then $\sin A$ is:
(A) 3/5   (B) 4/5
(C) 5/3   (D) 5/4

16. A tangent to a circle intersects it at:
(A) One point   (B) Two points
(C) Three points   (D) Infinite points

17. If $\sec \theta = 13/12$, then $\tan \theta =$
(A) 5/12   (B) 5/13
(C) 12/5   (D) 13/5

18. The probability of getting a head when a coin is tossed once is:
(A) 0   (B) 1
(C) 1/2   (D) 2

19. A concave lens always forms an image which is:
(A) Real, inverted, diminished   (B) Virtual, erect, diminished
(C) Real, erect, same size   (D) Virtual, inverted, enlarged

20. The commercial unit of electrical energy is:
(A) Joule   (B) Watt
(C) kWh   (D) Coulomb

21. The first Indian to demand Swaraj was:
(A) Dadabhai Naoroji   (B) Bipin Chandra Pal
(C) Bal Gangadhar Tilak   (D) Gopal Krishna Gokhale

22. The Non-Cooperation Movement was suspended by Gandhiji after:
(A) Jallianwala Bagh massacre   (B) Chauri Chaura incident
(C) Simon Commission   (D) Quit India Movement

23. The All India Muslim League was founded in:
(A) 1905   (B) 1906
(C) 1919   (D) 1925

24. Which type of soil is most suitable for cotton cultivation?
(A) Alluvial soil   (B) Red soil
(C) Black soil   (D) Laterite soil

25. Which state is the largest producer of sugarcane in India?
(A) Uttar Pradesh   (B) Punjab
(C) Maharashtra   (D) Tamil Nadu

26. Which of the following is a non-renewable resource?
(A) Wind energy   (B) Solar energy
(C) Coal   (D) Water

27. Which crop is called the "Golden Fibre"?
(A) Jute   (B) Cotton
(C) Wheat   (D) Rice

28. The leading producer of tea in the world is:
(A) India   (B) Sri Lanka
(C) China   (D) Kenya

29. Who is known as the Father of the Indian Constitution?
(A) Mahatma Gandhi   (B) Jawaharlal Nehru
(C) Dr. B.R. Ambedkar   (D) Rajendra Prasad

30. The concept of secularism means:
(A) Freedom to follow any religion (B) Rule by majority religion
(C) Religion as part of government (D) Ban on religion

31. The literacy rate is an indicator of:
(A) Economic growth   (B) Human development
(C) Industrial growth   (D) Political stability

32. Which is considered as a measure of sustainable development?
(A) GDP growth rate   (B) Per capita income
(C) Human Development Index   (D) Green GDP

33. The Non-Cooperation Movement was started in:
(A) 1919   (B) 1920
(C) 1950   (D) 1952

34. In the story *A Letter to God*, who wrote the letter to God?
(A) Postmaster   (B) Lencho
(C) Priest   (D) Farmer's wife

35. What was the name of the pilot's old aeroplane in *Black Aeroplane*?
(A) Dakota   (B) Airbus
(C) Boeing   (D) F-16

36. Who is the poet of *Dust of Snow*?
(A) William Wordsworth   (B) Robert Frost
(C) John Keats   (D) P.B. Shelley

37. Who is the poet of *A Tiger in the Zoo*?
(A) Leslie Norris   (B) Robert Frost
(C) William Blake   (D) Walt Whitman

38. Fill in the blank:
If it _____ tomorrow, we will stay home.
(A) rains   (B) rained
(C) raining   (D) rain

39. The plural of *Cactus* is:
(A) Cactuss   (B) Cacti
(C) Cactuses   (D) Cactus

40. Choose the antonym of *Victory*:
(A) Success   (B) Loss
(C) Defeat   (D) Failure